CDX-CA680X/L580X

SERVICE MANUAL

AEP Model
UK Model

Ver 1.0 2002. 11

Photo: CDX-CA680X

• The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	CDX-L380X
CD Drive Mechanism Type	MG-393XA-121//Q
Optical Pick-up Name	KSS-720A

SPECIFICATIONS

CD player section

Signal-to-noise ratio	90 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit

Tuner section

FM

Tuning range	87.5 – 108.0 MHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Usable sensitivity	9 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	67 dB (stereo), 69 dB (mono)
Harmonic distortion at 1 kHz	0.5% (stereo), 0.3% (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

MW/LW

Tuning range	MW: 531 – 1,602 kHz LW: 153 – 279 kHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	MW: 30 µV LW: 40 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	50 W × 4 (at 4 ohms)

General

Outputs	Audio outputs (front) (CDX-CA680X only) Audio outputs (rear) Power aerial relay control terminal Power amplifier control terminal
Inputs	Telephone ATT control terminal Remote controller input terminal BUS control input terminal (CDX-CA680X only) BUS audio input terminal (CDX-CA680X only)
Tone controls	Low ±10 dB at 60 Hz (XPLOD) Mid ±10 dB at 1 kHz (XPLOD) High ±10 dB at 10 kHz (XPLOD)
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 178 × 50 × 180 mm (w/h/d)
Mounting dimension	Approx. 182 × 53 × 161 mm (w/h/d)
Mass	Approx. 1.2 kg
Supplied accessories	Parts for installation and connections Front panel case (1)

Design and specifications are subject to change without notice.

FM/MW/LW COMPACT DISC PLAYER

9-874-248-01
2002K0400-1
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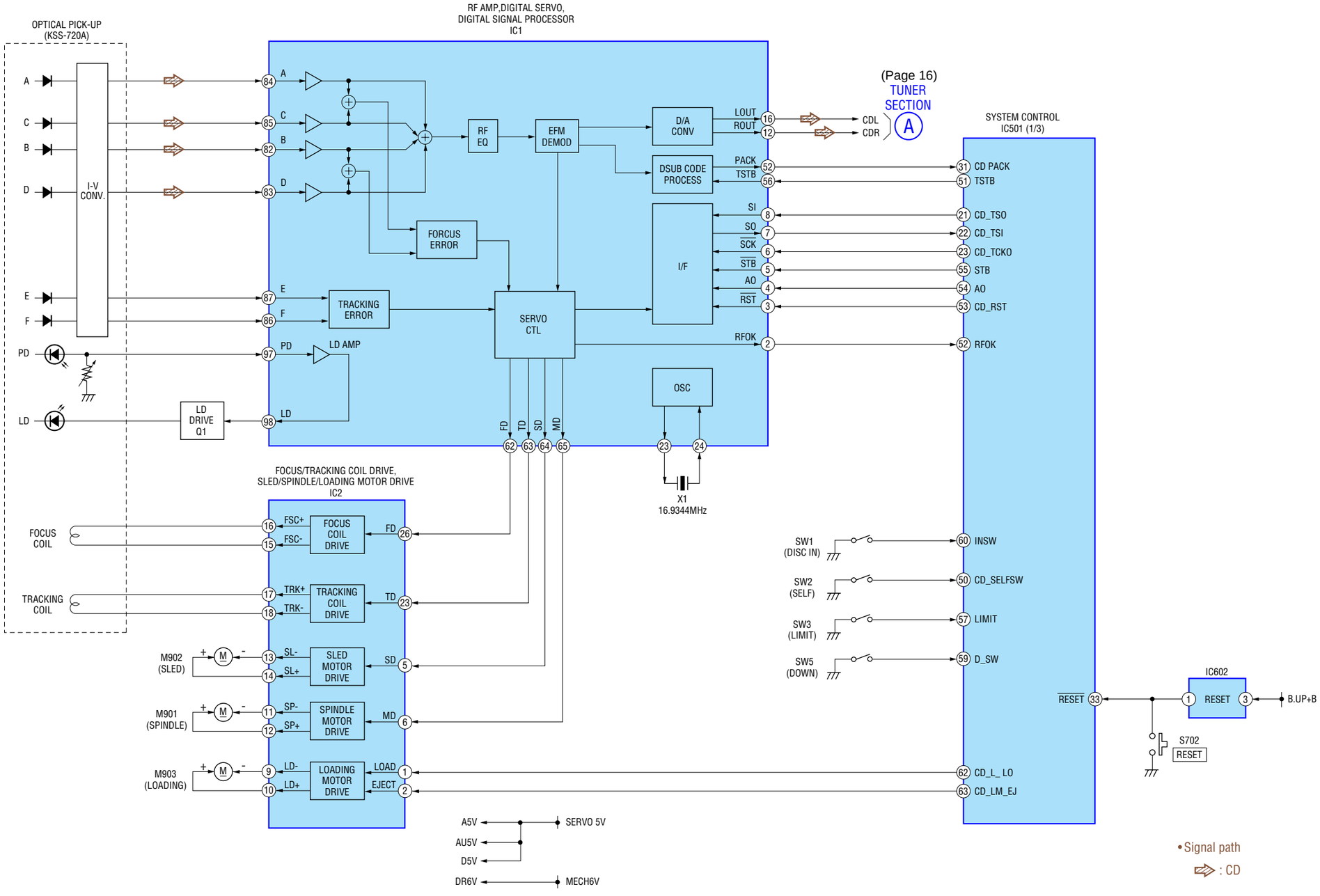
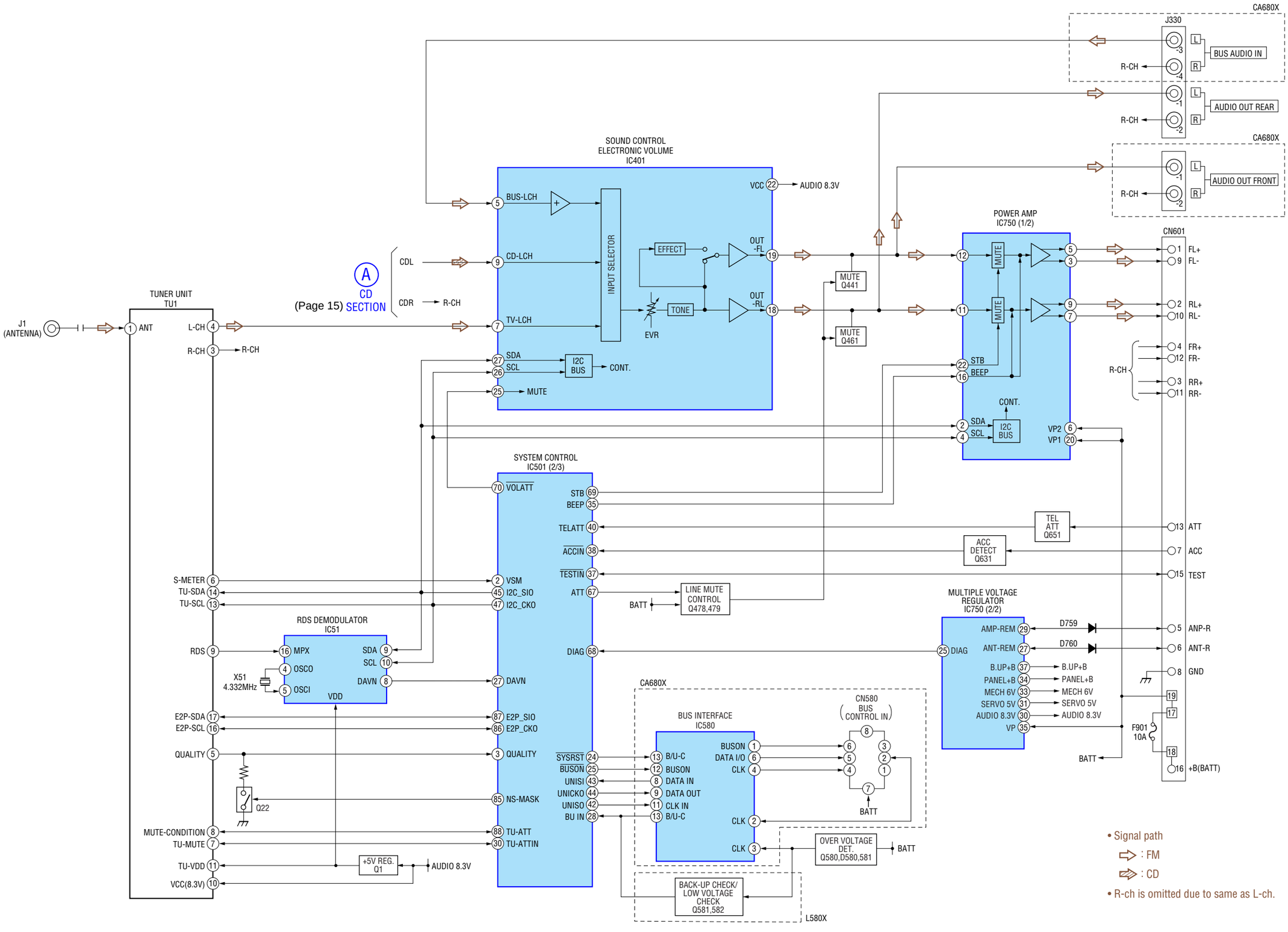
Sony Corporation
e Vehicle Company
Published by Sony Engineering Corporation

SONY®

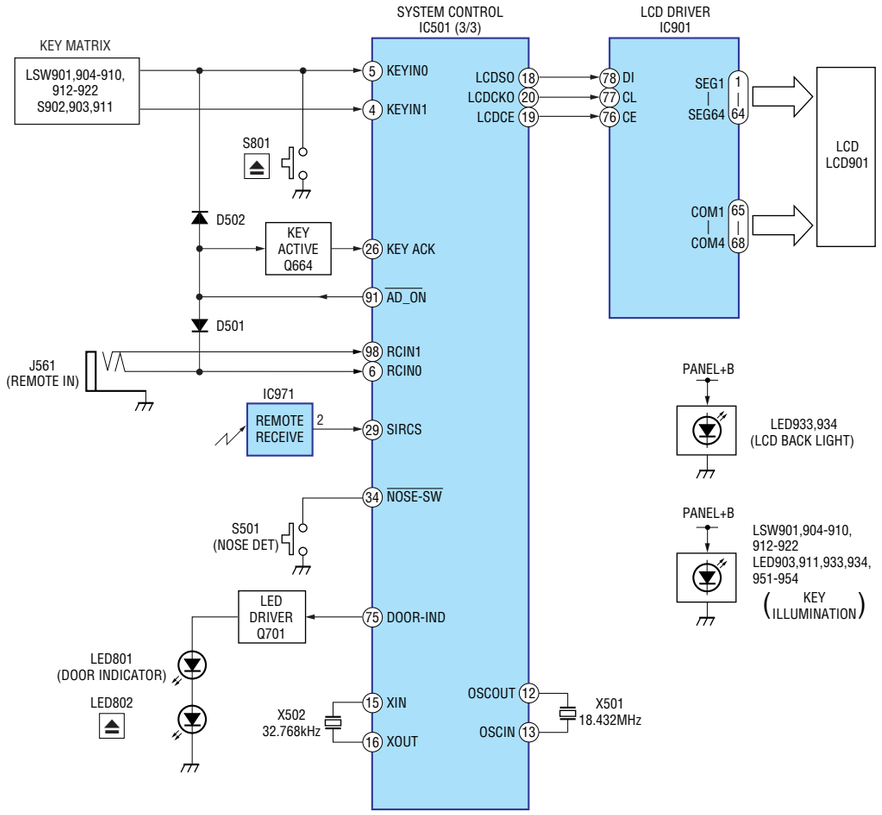
3-2. BLOCK DIAGRAM — CD SECTION —



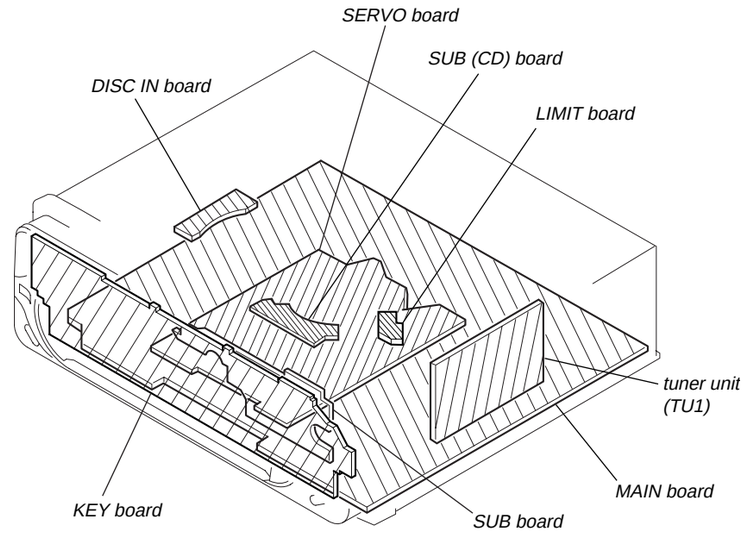
3-3. BLOCK DIAGRAM — TUNER SECTION —



3-4. BLOCK DIAGRAM — DISPLAY SECTION —



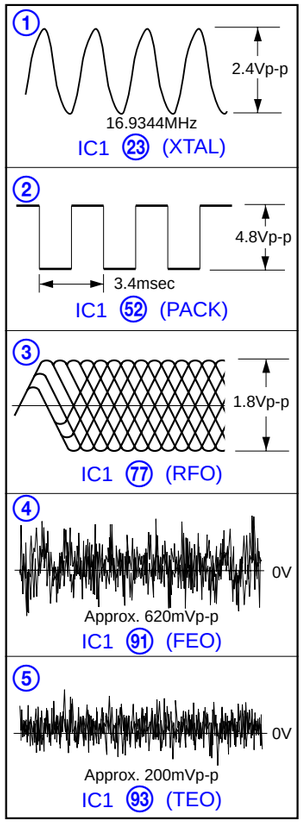
3-5. CIRCUIT BOARDS LOCATION



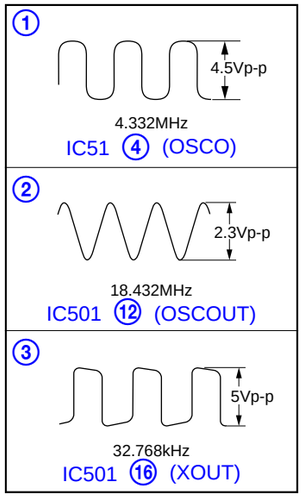
• Waveforms

— Servo Board —

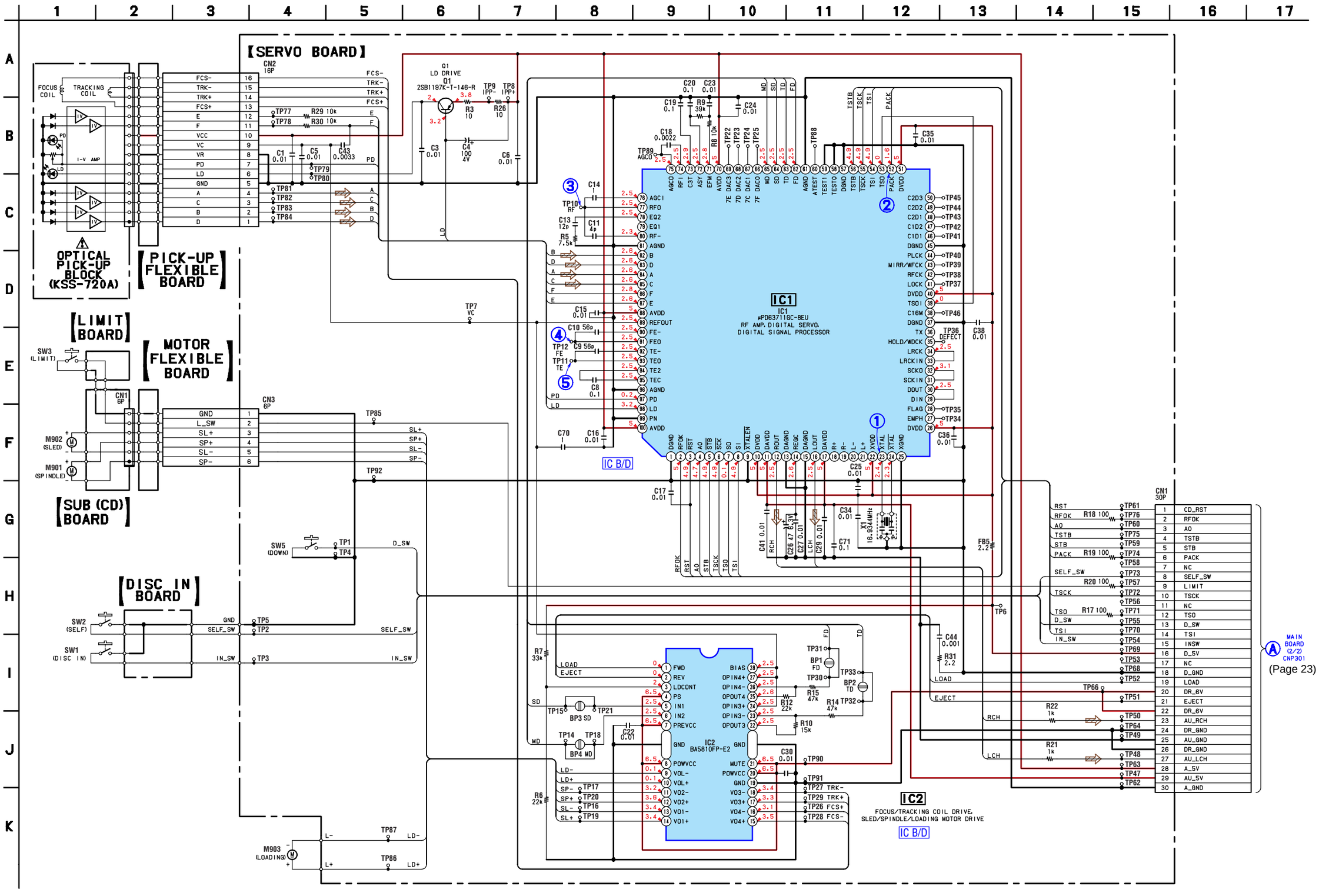
(MODE: CD PLAY)



— Main Board —



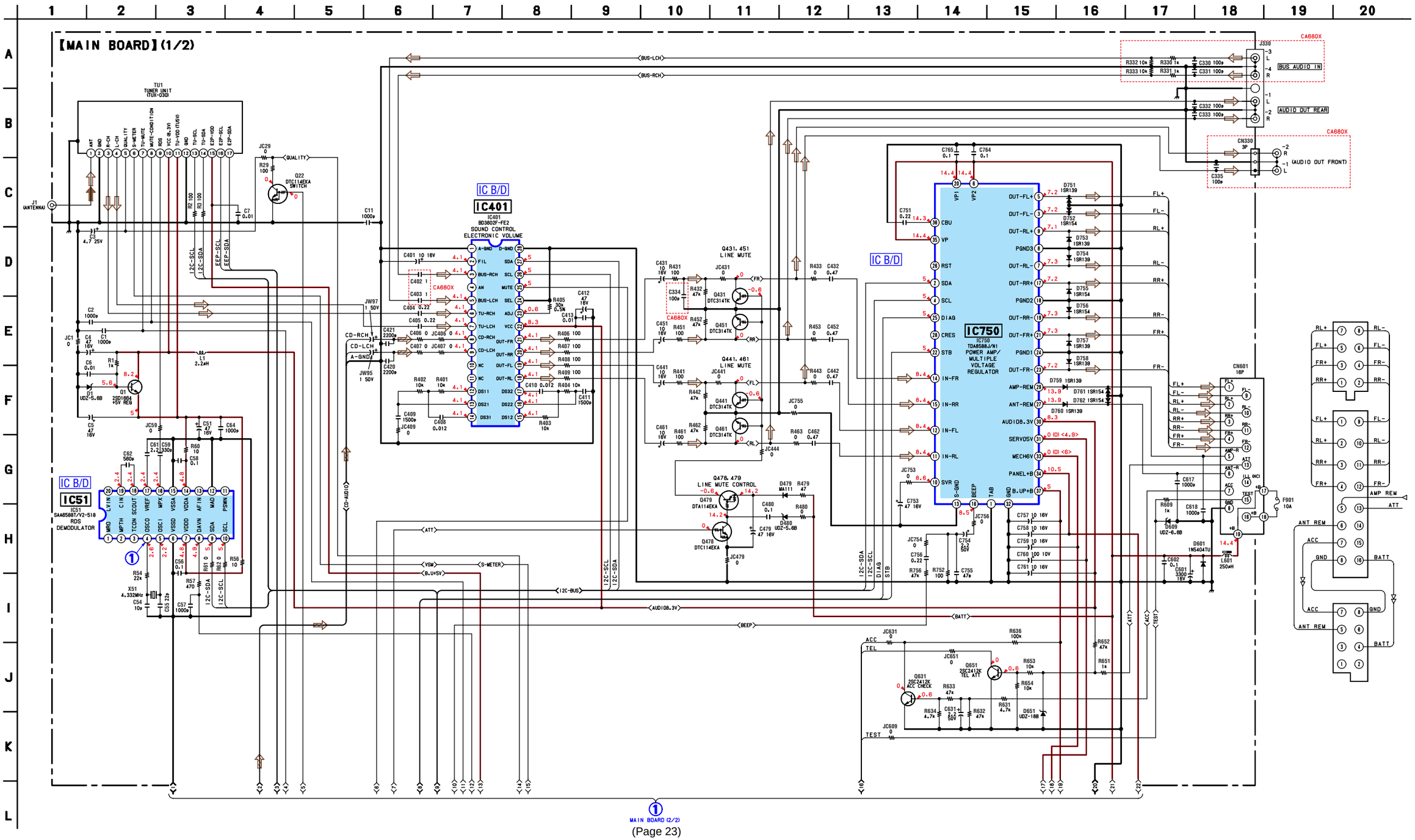
3-7. SCHEMATIC DIAGRAM — CD MECHANISM SECTION — • Refer to page 17 for Waveforms and page 18 for Common Note on Schematic Diagram.
• Refer to page 27 for IC Block Diagrams.



Note:
- Voltage is dc with respect to ground under no-signal conditions.
  no mark : CD PLAY

3-9. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) —

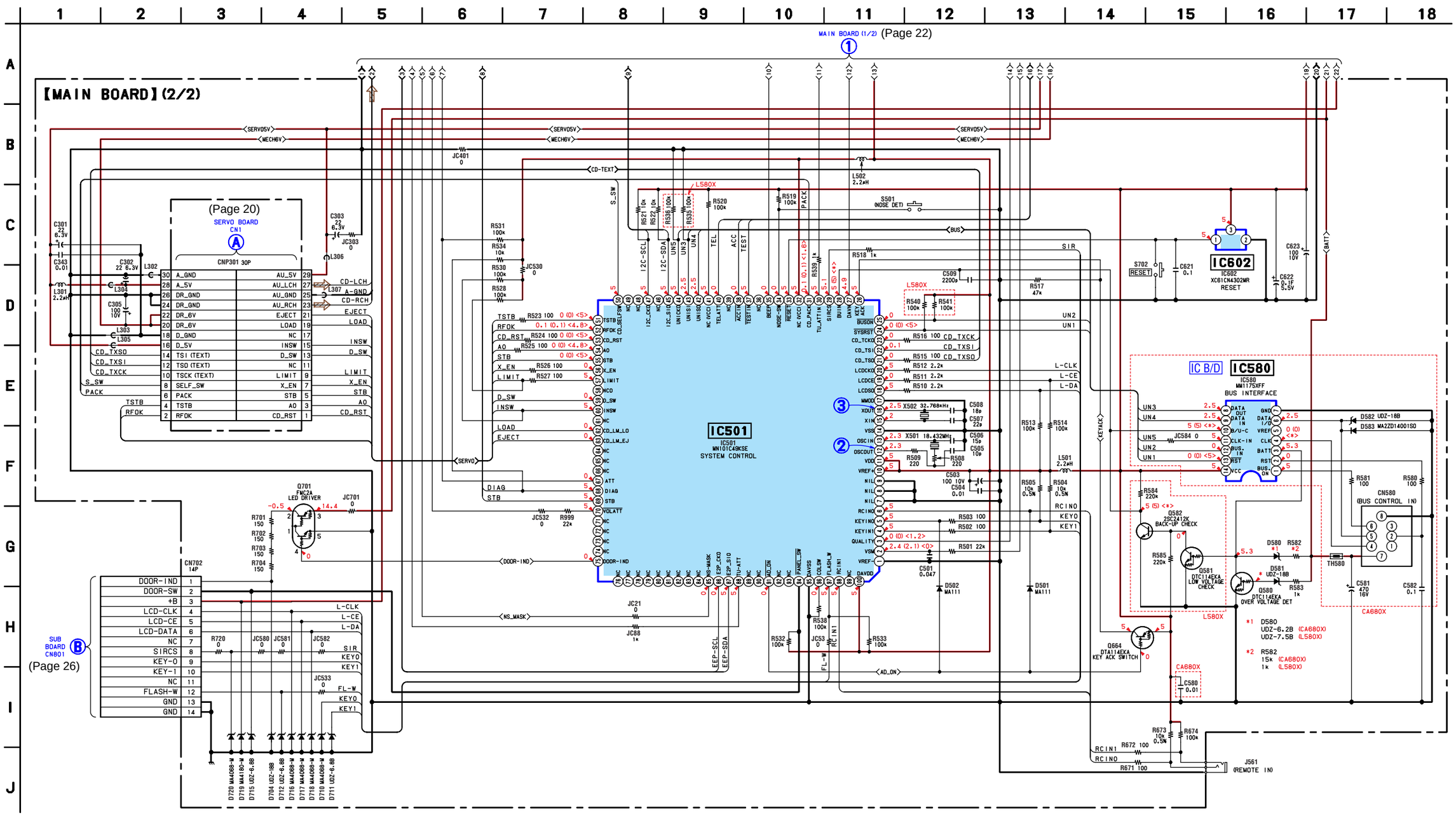
• Refer to page 17 for Waveforms and page 18 for Common Note on Schematic Diagram.
• Refer to page 27 for IC Block Diagrams.



Note:

- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : MW
  < > : CD PLAY
  * : Impossible to measure

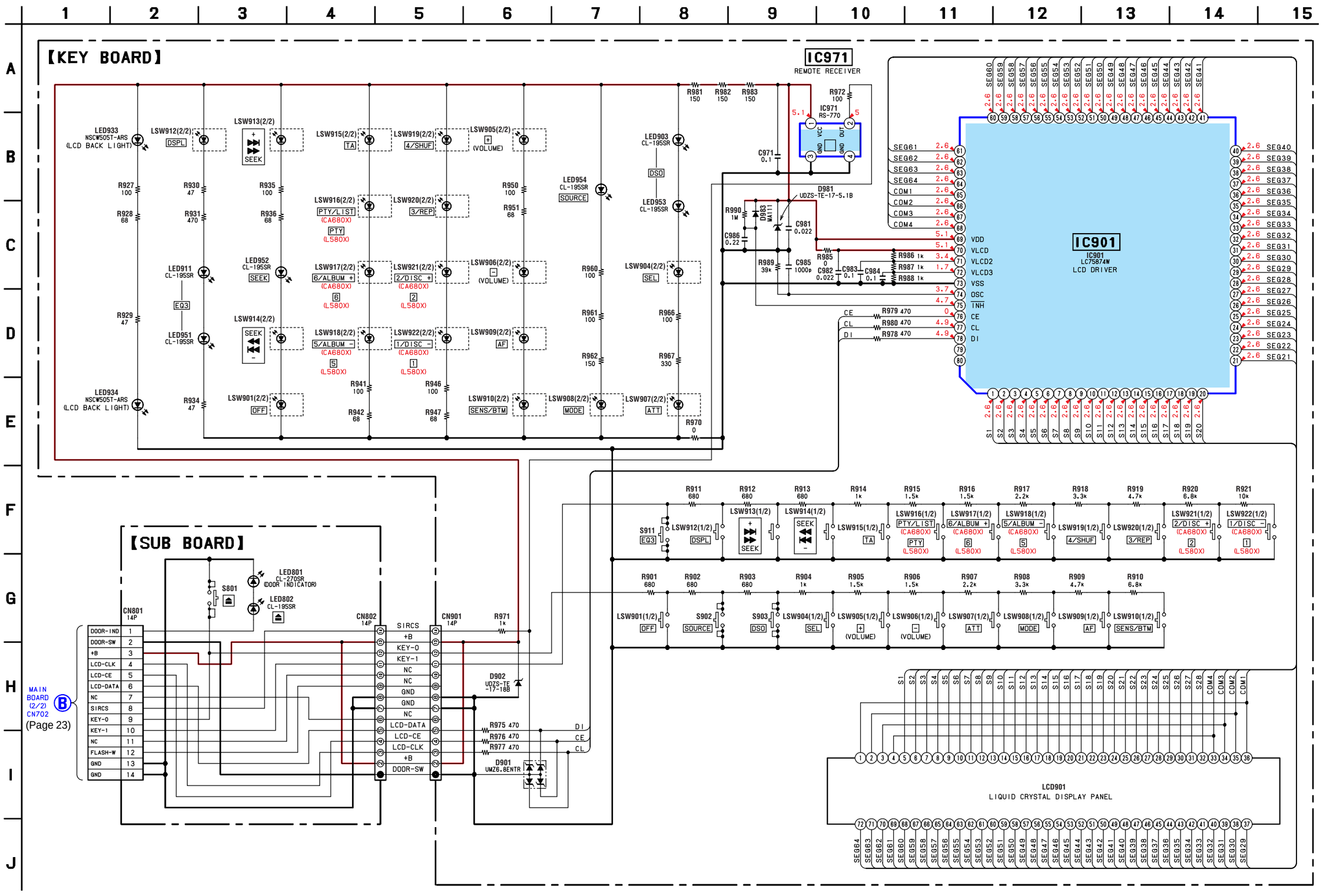
3-10. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — • Refer to page 18 for Common Note on Schematic Diagram and page 27 for IC Block Diagrams.



Note:

- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : MW
  < > : CD PLAY
  * : Impossible to measure

3-13. SCHEMATIC DIAGRAM — KEY SECTION — • Refer to page 18 for Common Note on Schematic Diagram.



Note:

- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM